

PE-UHMW PLASTICS

PRODUCT INFORMATION - SPECIFICATIONSHEET PE 2000 - H No. 925

Multilene® PE 2000 – H 925 is premier UHMW-PE Polymer (9,2 mio. g/mol) containing a unique antioxidant which protects the material from breaking apart at extreme temperatures. This material grade is used in high temp applications where normal UHMW fails. The enhanced material was designed to still operate effectively under lower load, with a temperature range peaking 150°C for a short time.

Properties: long term operating temperature possible at Peak range 150 °C (only at lower loads), BfR + FDA approved up to 10 x longer life time at higher temperatures than any standard grade of UHMW PE

Color: white colored no. 925

Application fields: Bakeries (bun racks)
Food industry
for windows (with arches)

Characteristics and standard values

	METHOD	UNITS	VALUE
PHYSICAL PROPERTIES			
Density	ISO 1183-A	g.cm ³	0,94
Abrasion (Sand-Slurry-Test)	internal method	%	80
Notched Impact Strength (Charpy)	ISO 11542-2	mJ/mm ²	>100
Tensile strength	ISO 527	N/mm ²	>17
Break elongation	ISO 527	%	>50
Creep properties under varying compressive stress < 10 % in 7 days	max.	N/mm ²	-
Coefficient of friction	ASTM 1894	static μ	0.18
		dynamic μ	0.13
Shore-Hardness	ISO 868	D	62
Water absorption		%	< 0.1
THERMAL PROPERTIES			
Melt point DSC	ISO 3146	°C	135 - 137
Permanente operation temperature, max.	-	°C	80
Coefficient of linear expansion	ISO 11359	23 - 80°C	$\approx 2.0 \times 10^{-4} / ^\circ\text{C}$

	METHOD	UNITS	VALUE
ELECTRICAL PROPERTIES			
Volume resistivity	IEC 60093	$\Omega \cdot \text{cm}$	$\leq 10^{14}$
Surface resistivity	IEC 60093	Ω	$\leq 10^{13}$

The above data are based on the present knowledge and are given without guarantee.
Existing laws and conditions are to be respected by the user of our products.

sheet and finished products